

SHINDENGEN

General Purpose Rectifiers

Single

S3V60

600V 3.5A

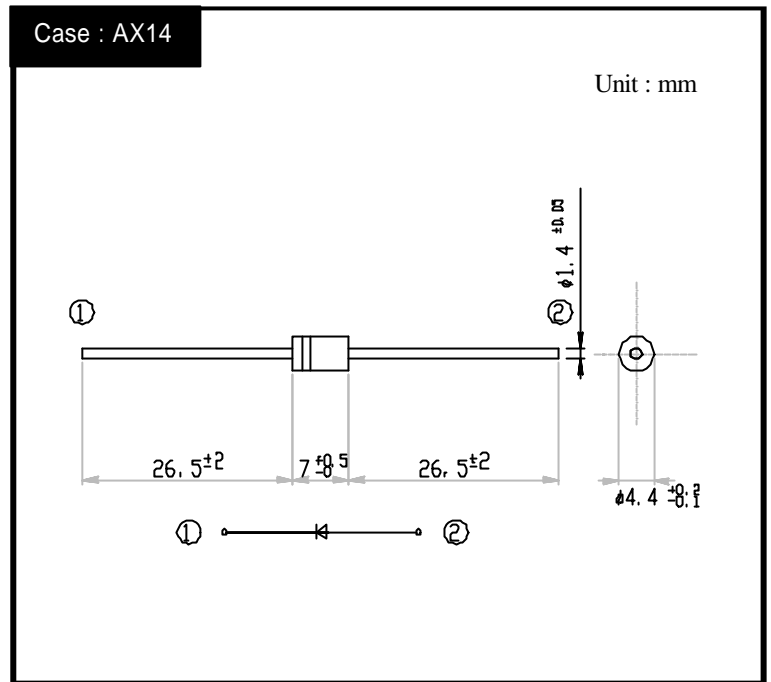
FEATURES

- High voltage
- High reliability with superior moisture resistance
- Applicable to Automatic Insertion

APPLICATION

- Conventional Rectification
- Power source(Power Supply)
- Home Appliances, Office Equipment
- Telecommunication, Factory Automation

OUTLINE DIMENSIONS



RATINGS

Absolute Maximum Ratings (If not specified Tl=25)

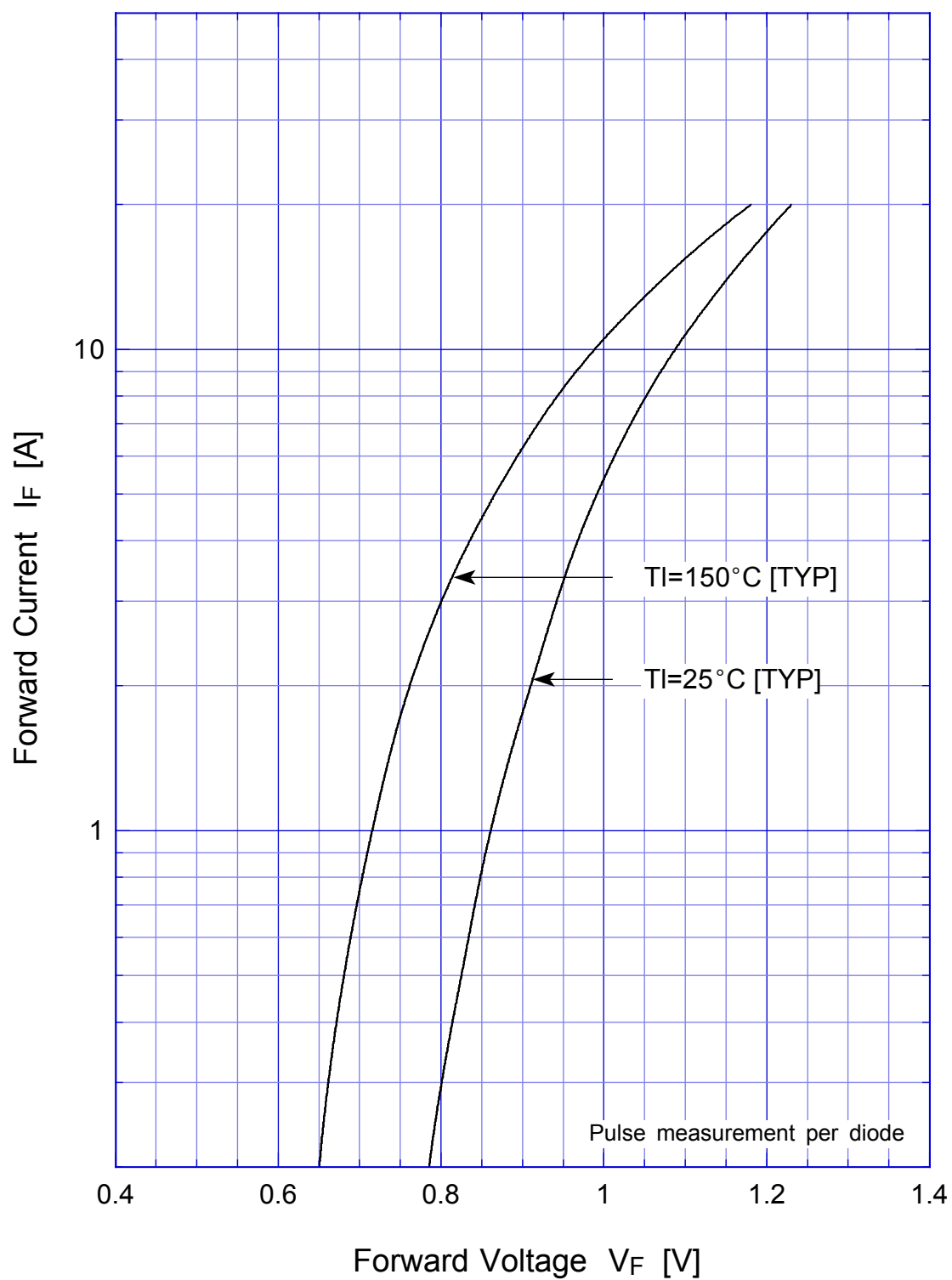
Item	Symbol	Conditions	Ratings	Unit
Storage Temperature	Tstg		-55 ~ 150	
Operating Junction Temperature	Tj		150	
Maximum Reverse Voltage	V _{RM}		600	V
Average Rectified Forward Current	I _O	50Hz sine wave, R-load, Ta=40 With 20 × 20 × 1mm copper plate	3.5	A
		50Hz sine wave, R-load, Ta=40 Without heatsink	2.6	
Peak Surge Forward Current	I _{FSM}	50Hz sine wave, Non-repetitive 1cycle peak value, Tj=25	120	A
Current Squared Time	I ² t	1ms t < 10ms Tj=25	60	A ² s

Electrical Characteristics (If not specified Tl=25)

Item	Symbol	Conditions	Ratings	Unit
Forward Voltage	V _F	I _F =2.6A Pulse measurement	Max. 1.05	V
Reverse Current	I _R	V _R =V _{RM} Pulse measurement	Max. 10	μA
Thermal Resistance	jl	junction to lead	Max.6.5	/W

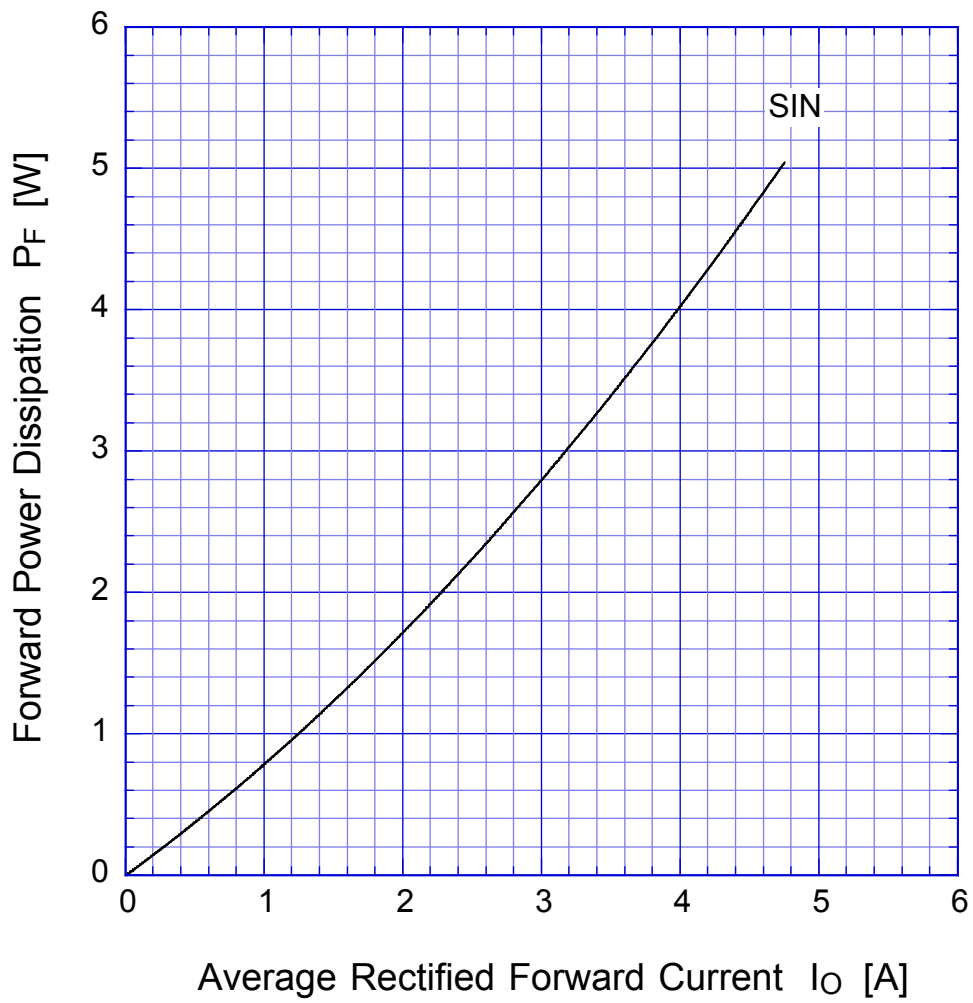
S3Vx

Forward Voltage



S3Vx

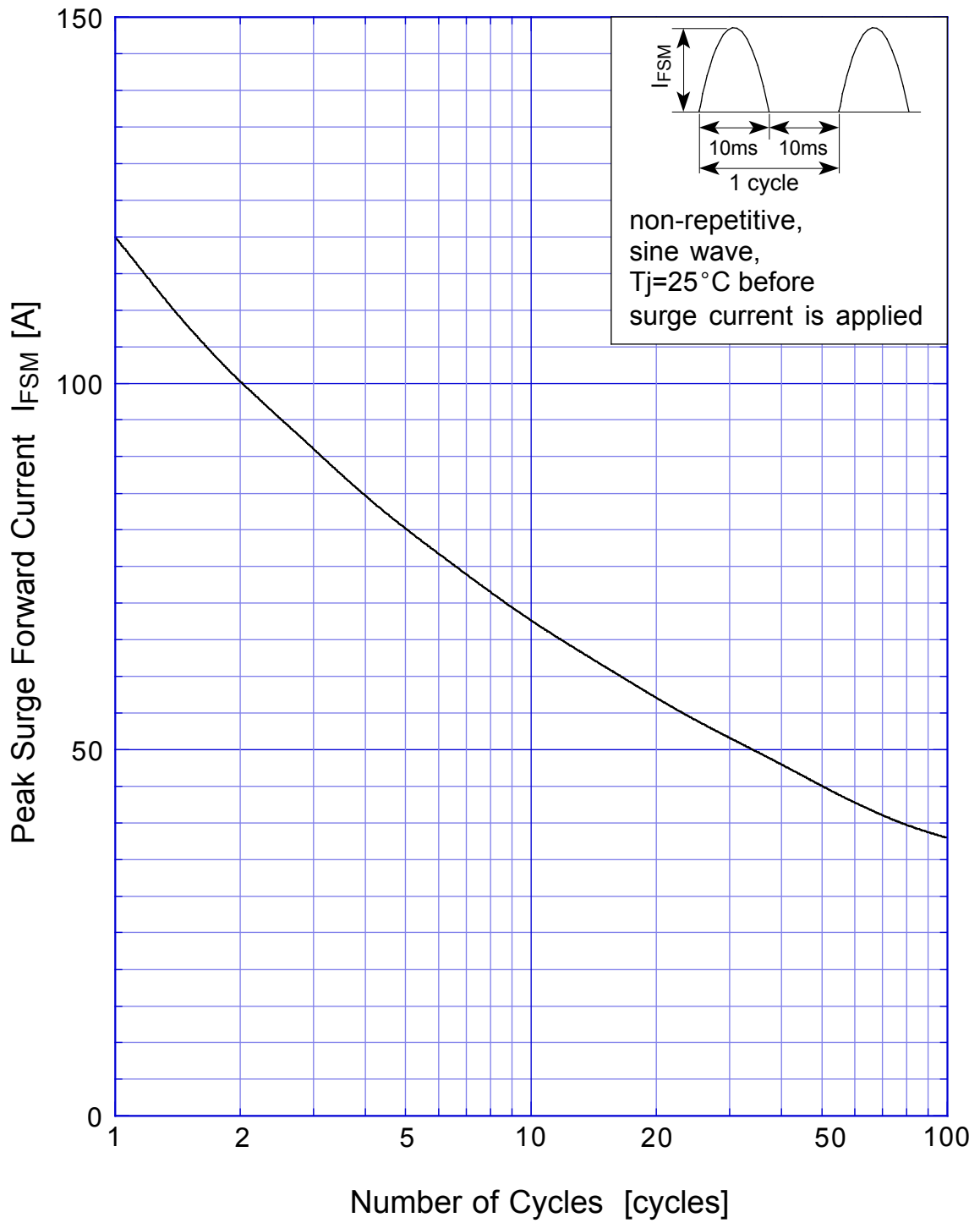
Forward Power Dissipation



$T_j = 150^\circ\text{C}$
Sine wave

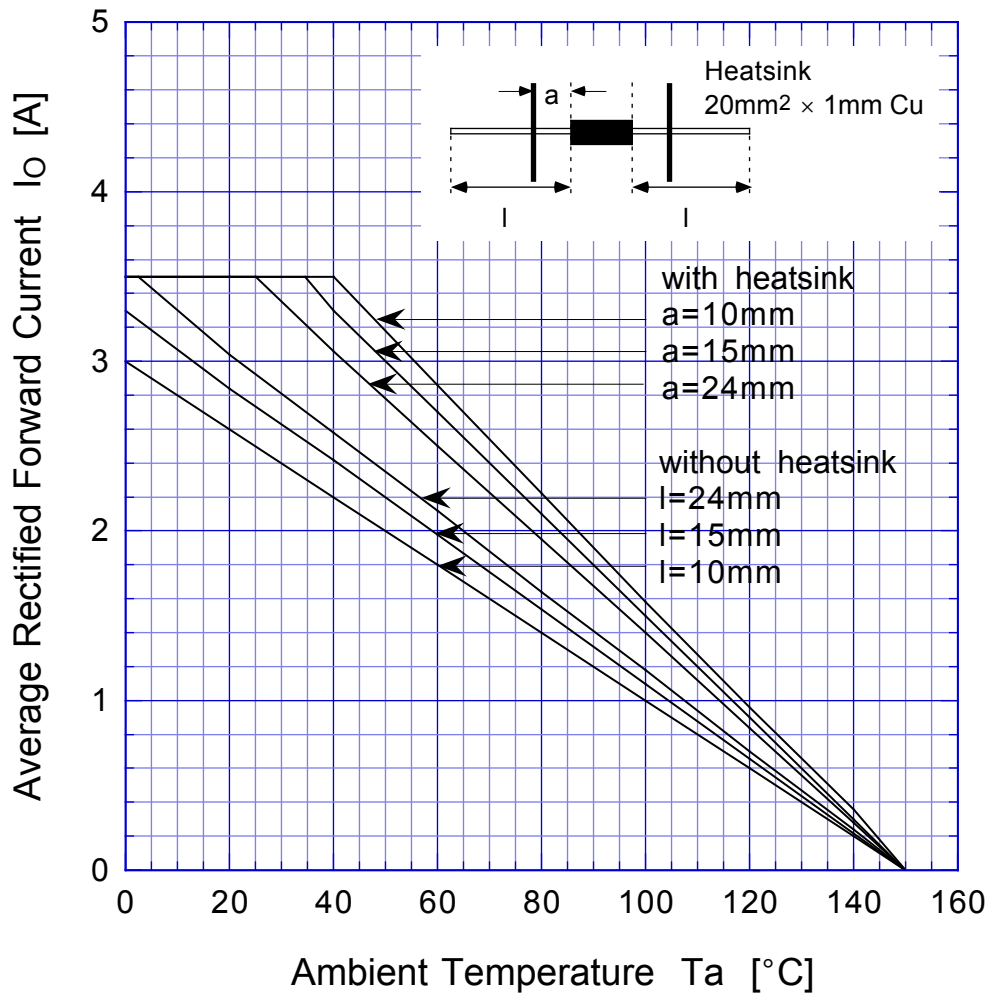
S3Vx

Peak Surge Forward Capability



S3Vx

Derating Curve



Sine wave
R-load
Free in air